Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Chemical Nomenclature Group Work**

**Part 1: Binary Ionic Compounds (1 point each)**

1. Name the following ionic compounds:
   1. Al2O3
   2. Cs2O
   3. Rb3N
   4. Ca3N2
   5. SrSe
2. Write the chemical formula for the following ionic compounds:
   1. Barium nitride
   2. Indium Fluoride
   3. Calcium oxide
   4. Sodium nitride
   5. Magnesium chloride

**Part 2: Binary Ionic Compounds with Transition Metals (2 points each)**

1. Name the following ionic compounds:
   1. SnO2
   2. Mn2O7
   3. FeN
   4. Cu3N2
   5. TiF3
   6. Cu2S
   7. Fe2S3
   8. CuBr
2. Write the formula for the following ionic compounds:
   1. Copper (I) nitride
   2. Cobalt (I) fluoride
   3. Titanium (IV) oxide
   4. Iron (II) nitride
   5. Iron (III) chloride
   6. Copper (II) oxide
   7. Rhodium (II) oxide
   8. Tin (IV) sulfide
   9. Manganese (IV) nitride

**Part 3: Binary Covalent Compounds (1 point each)**

1. Name the following covalent compounds:
   1. CO
   2. CO2
   3. NO
   4. NO2
2. Write the formula for the following covalent compounds:
   1. Boron trichloride
   2. Nitrogen monoxide
   3. Dinitrogen monoxide
   4. Dinitrogen pentoxide
   5. Sulfur hexachloride
   6. Carbon monoxide

**Part 4: Mixing up Binary Compounds (3 points each)**

1. Name the following compounds:
   1. CuO
   2. SrO
   3. B2O3
   4. TiCl4
   5. K2S
   6. OF2
   7. NH3
   8. VF5
   9. CuCl
2. Write the formula for the following binary compounds:
   1. Phosphorous trichloride
   2. Chlorine monofluoride
   3. Copper (II) chloride
   4. Copper (I) sulfide
   5. Calcium nitride
   6. Carbon tetrabromide
   7. Titanium (IV) bromide
   8. Manganese (II) nitride

**Part 5: Ionic Compounds with Polyatomic Ions (3 points each)**

1. Name the following ionic compounds:
   1. Co(NO3)2
   2. NaNO2
   3. Cu3(PO3)2
   4. Ba(CN)2
   5. Al2(SO4)3
   6. KClO3
   7. CuC2H3O2
   8. NH4Cl

1. Write the formula for the following ionic compounds:
   1. Rhodium (II) chromate
   2. Lithium hydroxide
   3. Sodium permanganate
   4. Manganese (III) nitrate
   5. Barium nitrite
   6. Aluminum hypochlorite
   7. Potassium phosphate
   8. Copper (I) acetate
   9. Ammonium bromide
   10. Sodium carbonate
   11. Lithium chlorite

**Part 6: Everything!!! (5 points each)**

1. Name the following compounds:
   1. Fe(NO3)3
   2. CaSO4
   3. NaCl
   4. K2SO4
   5. CO2
   6. SF6
   7. KClO
   8. N2O5
   9. IF5
   10. Co(MnO4)2
2. Write the formula for the following compounds:
   1. Trinitrogen dioxide
   2. Lithium phosphate
   3. Ammonium chloride
   4. Copper (II) chlorite

you should be a naming

wizard by this page!

* 1. Nitrogen monoxide
  2. Iron (II) iodide
  3. Calcium phosphate
  4. Dinitrogen dioxide
  5. Magnesium oxide
  6. Iron (III) chromate
  7. Sulfur dioxide